

# / Single Phase Inverter with HD-Wave Technology for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/  
SE7600H-US / SE10000H-US / SE11400H-US

| MODEL NUMBER  | SE3000H-US                      | SE3800H-US                 | SE5000H-US | SE6000H-US                 | SE7600H-US | SE10000H-US | SE11400H-US                  |     |
|---|---------------------------------|----------------------------|------------|----------------------------|------------|-------------|------------------------------|-----|
| APPLICABLE TO INVERTERS WITH PART NUMBER                                  | SEXXXXH-XXXXXBXX4               |                            |            |                            |            |             |                              |     |
| <b>OUTPUT</b>   |                                 |                            |            |                            |            |             |                              |     |
| Rated AC Power Output   | 3000                            | 3800 @ 240V<br>3300 @ 208V | 5000       | 6000 @ 240V<br>5000 @ 208V | 7600       | 10000       | 11400 @ 240V<br>10000 @ 208V | VA  |
| Maximum AC Power Output   | 3000                            | 3800 @ 240V<br>3300 @ 208V | 5000       | 6000 @ 240V<br>5000 @ 208V | 7600       | 10000       | 11400 @ 240V<br>10000 @ 208V | VA  |
| AC Output Voltage Min.-Nom.-Max. (211 - 240 - 264)                        | ✓                               | ✓                          | ✓          | ✓                          | ✓          | ✓           | ✓                            | Vac |
| AC Output Voltage Min.-Nom.-Max. (183 - 208 - 229)                        | -                               | ✓                          | -          | ✓                          | -          | -           | ✓                            | Vac |
| AC Frequency (Nominal)  | 59.3 - 60 - 60.5 <sup>(1)</sup> |                            |            |                            |            |             |                              | Hz  |
| Maximum Continuous Output Current @240V                                   | 12.5                            | 16                         | 21         | 25                         | 32         | 42          | 47.5                         | A   |
| Maximum Continuous Output Current @208V                                   | -                               | 16                         | -          | 24                         | -          | -           | 48.5                         | A   |
| Power Factor  | 1, Adjustable - 0.85 to 0.85    |                            |            |                            |            |             |                              |     |
| GFDI Threshold  | 1                               |                            |            |                            |            |             |                              | A   |
| Utility Monitoring, Islanding Protection, Country Configurable Thresholds | Yes                             |                            |            |                            |            |             |                              |     |
| <b>INPUT</b>  |                                 |                            |            |                            |            |             |                              |     |
| Maximum DC Power @240V  | 4650                            | 5900                       | 7750       | 9300                       | 11800      | 15500       | 17650                        | W   |
| Maximum DC Power @208V  | -                               | 5100                       | -          | 7750                       | -          | -           | 15500                        | W   |
| Transformer-less, Ungrounded  | Yes                             |                            |            |                            |            |             |                              |     |
| Maximum Input Voltage   | 480                             |                            |            |                            |            |             |                              | Vdc |
| Nominal DC Input Voltage  | 380                             |                            |            |                            | 400        |             |                              | Vdc |
| Maximum Input Current @240V <sup>(2)</sup>                                | 8.5                             | 10.5                       | 13.5       | 16.5                       | 20         | 27          | 30.5                         | Adc |
| Maximum Input Current @208V <sup>(2)</sup>                                | -                               | 9                          | -          | 13.5                       | -          | -           | 27                           | Adc |
| Max. Input Short Circuit Current  | 45                              |                            |            |                            |            |             |                              | Adc |
| Reverse-Polarity Protection   | Yes                             |                            |            |                            |            |             |                              |     |
| Ground-Fault Isolation Detection  | 600k $\Omega$ Sensitivity       |                            |            |                            |            |             |                              |     |
| Maximum Inverter Efficiency   | 99                              | 99.2                       |            |                            |            |             |                              | %   |
| CEC Weighted Efficiency   | 99                              |                            |            |                            |            |             | 99 @ 240V<br>98.5 @ 208V     | %   |
| Nighttime Power Consumption   | < 2.5                           |                            |            |                            |            |             |                              | W   |

<sup>(1)</sup> For other regional settings please contact SolarEdge support

<sup>(2)</sup> A higher current source may be used; the inverter will limit its input current to the values stated

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|--|---|------------|-------------|------------|-------------------------------------|-------------|-------------|--|---------|
| <b>ADDITIONAL FEATURES</b>                       |   |            |             |            |                                     |             |             |  |         |
| Supported Communication Interfaces               | RS485, Ethernet, ZigBee (optional), Cellular (optional)                                   |            |             |            |                                     |             |             |  |         |
| Revenue Grade Metering, ANSI C12.20              | Optional <sup>(3)</sup>   |            |             |            |                                     |             |             |  |         |
| Consumption metering                             |   |            |             |            |                                     |             |             |  |         |
| Inverter Commissioning                           | With the SetApp mobile application using Built-in Wi-Fi Access Point for Local Connection |            |             |            |                                     |             |             |  |         |
| Rapid Shutdown - NEC 2014 and 2017 690.12        | Automatic Rapid Shutdown upon AC Grid Disconnect  |            |             |            |                                     |             |             |  |         |
| <b>STANDARD COMPLIANCE</b>                       |   |            |             |            |                                     |             |             |  |         |
| Safety   | UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07             |            |             |            |                                     |             |             |  |         |
| Grid Connection Standards                        | IEEE1547, Rule 21, Rule 14 (HI)   |            |             |            |                                     |             |             |  |         |
| Emissions  | FCC Part 15 Class B   |            |             |            |                                     |             |             |  |         |
| <b>INSTALLATION SPECIFICATIONS</b>               |   |            |             |            |                                     |             |             |  |         |
| AC Output Conduit Size / AWG Range               | 1" Maximum / 14-6 AWG   |            |             |            | 1" Maximum / 14-4 AWG               |             |             |  |         |
| DC Input Conduit Size / # of Strings / AWG Range | 1" Maximum / 1-2 strings / 14-6 AWG   |            |             |            | 1" Maximum / 1-3 strings / 14-6 AWG |             |             |  |         |
| Dimensions with Safety Switch (HxWxD)            | 17.7 x 14.6 x 6.8 / 450 x 370 x 174   |            |             |            | 21.3 x 14.6 x 7.3 / 540 x 370 x 185 |             |             |  | in / mm |
| Weight with Safety Switch                        | 22 / 10   |            | 25.1 / 11.4 |            | 26.2 / 11.9                         |             | 38.8 / 17.6 |  | lb / kg |
| Noise  | < 25  |            |             |            | < 50                                |             |             |  | dBA     |
| Cooling  | Natural Convection  |            |             |            |                                     |             |             |  |         |
| Operating Temperature Range                      | -40 to +140 / -40 to +60 <sup>(4)</sup>   |            |             |            |                                     |             |             |  | °F / °C |
| Protection Rating                                | NEMA 4X (Inverter with Safety Switch)   |            |             |            |                                     |             |             |  |         |

<sup>(3)</sup> Inverter with Revenue Grade Meter P/N: SExxxxH-US000BNC4; Inverter with Revenue Grade Production and Consumption Meter P/N: SExxxxH-US000BNi4 . For consumption metering, current transformers should be ordered separately: SEACT0750-200NA-20 or SEACT0750-400NA-20. 20 units per box

<sup>(4)</sup> Full power up to at least 50°C / 122°F; for power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf>

## How to Enable Consumption Monitoring

By simply wiring current transformers through the inverter's existing AC conduits and connecting them to the service panel, homeowners will gain full insight into their household energy usage helping them to avoid high electricity bills

